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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/816,455	03/31/2004 Robert W. Seaton JR.		16222U-014110US	8400		
	7590 11/24/200 AND TOWNSEND CR	EXAMINER				
TWO EMBARO SAN FRANCIS	CADERO CENTER, 8	BAYOU, YONAS A				
SAIN FRAINCIS	OCO, CA 94111	ART UNIT	PAPER NUMBER			
			2434			
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			11/24/2008	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		<i>A</i>	Application No. Applicant(s)						
			10/816,455		SEATON ET AL.				
		E	xaminer		Art Unit				
		Y	ONAS BAYOU		2434				
Period fo	The MAILING DATE of this commur or Reply	nication appea	rs on the cover s	sheet with the c	orrespondence ad	idress			
WHIC - Exter after - If NC - Failu Any r	ORTENED STATUTORY PERIOD F CHEVER IS LONGER, FROM THE IN Insions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this common period for reply is specified above, the maximum street or reply within the set or extended period for reply eply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	MAILING DAT s of 37 CFR 1.136(a munication. tatutory period will a v will, by statute, ca	E OF THIS CON a). In no event, however apply and will expire SI use the application to be	MMUNICATION er, may a reply be tim X (6) MONTHS from become ABANDONEI	I. ely filed the mailing date of this c (35 U.S.C. § 133).				
Status									
1)[\	Responsive to communication(s) file	ed on 15 Octo	nher 2008						
· · · · · · · · · · · · · · · · · · ·	•	·	otion is non-final						
3)		<i>′</i> —			secution as to the	e merits is			
٠,١	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
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Dispositi	on of Claims								
4)🛛)⊠ Claim(s) <u>1-8,10-19,21-29 and 31-36</u> is/are pending in the application.								
	4a) Of the above claim(s) is/are withdrawn from consideration.								
5)	Claim(s) is/are allowed.								
6)🖂	6)⊠ Claim(s) <u>1-8,10-19,21-29 and 31-36</u> is/are rejected.								
7)	Claim(s) is/are objected to.								
8)	Claim(s) are subject to restrict	ction and/or e	lection requirem	ent.					
Applicati	on Papers								
9) 🗆	The specification is objected to by th	e Examiner							
-	9) The specification is objected to by the Examiner.								
10/23	10) The drawing(s) filed on <u>03/31/2004</u> is/are: a) accepted or b) objected to by the Examiner.								
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).									
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
Priority ι	ınder 35 U.S.C. § 119								
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 									
2) Notic 3) Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (Fination Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	PTO-948)	5) <u> </u>	nterview Summary aper No(s)/Mail Da otice of Informal Pa ther:	te				

Application/Control Number: 10/816,455 Page 2

Art Unit: 2434

DETAILED ACTION

1. This office action is in response to applicant's response filed on 10/15/2008.

- 2. Claims 1-8, 10-19, 21-29 and 31-36 are pending.
- 3. Claims 9, 20 and 30 are cancelled.
- 4. Claims 35 and 36 are new claims.
- 5. Claims 1, 19, 28 and 32 are amended.
- 6. Applicant's arguments have been fully considered but they are not persuasive.
- 7. When responding to the Office action, Applicant is advised to clearly point out the patentable novelty the claims present in view of the state of the art disclosed by the reference(s) cited or the objection made. A showing of how the amendments avoid such references or objections must also be present. See 37 C.F.R. 1.111(c).

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 10/15/2008 has been entered.

Application/Control Number: 10/816,455 Page 3

Art Unit: 2434

Response to Arguments

1. Applicant's arguments with respect to claims 1-8, 10-19, 21-29 and 31-36 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102 or 103

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-8, 10-19, 21-29 and 31-36 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Hodgson et al., Pub. No. US 2002/0123972 A1 (hereinafter Hodgson).

Art Unit: 2434

Referring to claims 1, 6 and 11, Hodgson teaches a secure passcode authentication system, the system comprising:

an Access Control Server (ACS) configured to receive a request for passcode authentication of a Primary Account Number (PAN) from a merchant server, and configured to request a passcode corresponding to the PAN from a cardholder device, wherein the ACS is associated with an issuer of the PAN [paragraph 90 and figs. 2A; step 210, entering their data and sending to the STMS corresponding to passcode for passcode authentication];

a front end Hardware Security Module (HSM) coupled to the ACS, and configured to receive the passcode and generate an encrypted passcode using a local encryption key [paragraph 30]; and

a back end HSM configured to receive the encrypted passcode from the front end HSM and further configured to recover a clear form of the passcode, generate a back end encrypted passcode, and communicate the back end encrypted passcode to an authentication network [paragraph 0057, paragraph 0061, lines 11-14 and figs. 1 and 1A, STMS 30 handles all the payment transaction request over the internet 18].

Referring to claim 2, Hodgson teaches a secure passcode authentication system, wherein the request for passcode authentication comprises a request for a Personal Identification Number (PIN) authentication [paragraph 0005, lines 24-28].

Referring to claim 3, Hodgson teaches a secure passcode authentication system, wherein the ACS is further configured to receive an authentication message from the authentication network [paragraph 0090, lines 6-20 and figs. 2A-2C].

Referring to claim 4, Hodgson teaches a secure passcode authentication system, wherein the ACS is further configured to generate a unique transaction identification and include the unique transaction identification as a hidden field in the request for the passcode [paragraph 0098, lines 5-7 and fig. 2C].

Referring to claim 5, Hodgson teaches a secure passcode authentication system, wherein the front end HSM is configured to generate a hash value based in part on the unique transaction identification, and wherein the ACS is configured to include the hash value as an additional hidden field in the request for the passcode [paragraph 0027 and paragraph 0154].

Referring to claims 7 and 25, Hodgson teaches a secure passcode authentication system, wherein the front end HSM comprises a software HSM [paragraph 0023].

Referring to claim 8, Hodgson teaches a secure passcode authentication system, wherein the front end HSM comprises a hardware HSM [paragraph 0023].

Referring to claims 10, 22-24 and 34-36, Hodgson teaches a secure passcode authentication system, wherein the first encrypted format comprises a Secure Sockets Layer (SSL) encrypted format [paragraph 0076, 0105 and 108].

Referring to claim 12, Hodgson teaches a secure passcode authentication system, wherein the front end HSM is configured to receive a cardholder encrypted passcode from a cardholder device [paragraph 0019, pin/pad is corresponding to a cardholder device].

Referring to claim 13, Hodgson teaches a secure passcode authentication system, wherein the back end HSM is configured to generate the back end encrypted passcode by generating a PINBLOCK using the clear form of the passcode and encrypting the PINBLOCK using an Acquirer Working Key (AWK) [paragraph 0073, DES or ATM is corresponding to AWK].

Referring to claim 14, Hodgson teaches a secure passcode authentication system, wherein the authentication network comprises an Internet Payment Gateway Server (IPGS) [paragraph 0066, paragraph 0099, lines 18-20, IPGS corresponds to STS-MF 22 which is inside of the merchant server 20].

Referring to claim 15, Hodgson teaches a secure passcode authentication system, wherein the authentication network further comprises an issuer server coupled to the IPGS [paragraph 0060, lines 7-8].

Application/Control Number: 10/816,455

Art Unit: 2434

Referring to claims 16, 31 and 32-33, Hodgson teaches a secure passcode authentication system, the system comprising:

Page 7

an Access Control Server (ACS) configured to receive a request for Personal Identification Number (PIN) authentication of a Primary Account Number (PAN), and configured to generate a request for a PIN corresponding to the PAN [paragraph 0062], the request for the PIN including hidden fields comprising a unique transaction identifier and a hash value [paragraph 0027 and paragraph 0154].

a front end Hardware Security Module (HSM) coupled to the ACS [paragraph 0154], and configured to generate the hash value based in part on the unique transaction identifier [paragraph 0027 and paragraph 0154], and further configured to receive an encrypted PIN, decrypt the PIN to recover a clear form of the PIN [paragraph 0030], and generate a local encrypted PIN using a local encryption key [paragraph 0154]; and

a back end HSM configured to receive the local encrypted PIN from the front end HSM and further configured to recover a clear form of the PIN from the local encrypted PIN [paragraph 0057, paragraph 0061, lines 11-14 and fig. 1A], generate an Acquirer Working Key (AWK) encrypted PIN, and communicate the AWK encrypted PIN to an authentication network [paragraph 0073].

Referring to claim 17, Hodgson teaches a secure passcode authentication system, wherein the front end HSM generates the local encrypted key using a triple DES algorithm [paragraph 0154].

Referring to claims 18 and 21, Hodgson teaches a secure passcode authentication system, the system comprising:

an Access Control Server (ACS) configured to receive a request for Personal Identification Number (PIN) authentication of a Primary Account Number (PAN), and configured to generate a request for a PIN corresponding to the PAN, the request for the PIN including an instruction to provide the PIN to a destination address [paragraph 0062 and paragraph 0087, STMS 30 sends a follow up email to the email addressed used to register the PIN/PAD 16]; and

a front end Hardware Security Module (HSM) having said destination address and coupled to the ACS [paragraph 0154 and paragraph 0087], and configured to receive an encrypted PIN, decrypt the PIN to recover a clear form of the PIN [paragraph 0030], and generate an Acquirer Working Key (AWK) encrypted PIN using an AWK encryption key, and configured to communicate the AWK encrypted PIN to an authentication network [paragraph 0073].

Referring to claims 19, 27 and 28, Hodgson teaches a method for providing secure passcode authentication, the method comprising:

Art Unit: 2434

requesting a Personal Identification Number (PIN) corresponding to a Primary Account Number (PAN) wherein requesting the PIN includes generating a unique transaction identifier, generating a hash value with a front end Hardware Security Module (HSM) based in part on the unique transaction identifier, generating a query having the unique transaction identifier and hash value as fields in the query, and communicating the query [paragraphs 0027, 0062, 0098 lines 5-7, paragraph 0154 and fig. 2C];

Page 9

receiving the PIN in response to the request [paragraph 0062];
generating a PINBLOCK based in part on the PIN [paragraph 0073];
encrypting the PINBLOCK using a local key in a front end Hardware Security

Module (HSM) to generate a local key encrypted PINBLOCK [paragraph 0073];
decrypting the local key encrypted PINBLOCK with a back end HSM [paragraph 0030];

generating a back end encrypted PIN with the back end HSM [paragraph 0057]; communicating the back end encrypted PIN to an authentication network

[paragraph 0005, lines 19-22]; and

receiving an authentication response from the authentication network [paragraph 0090, lines 6-20 and figs. 2A-2C].

Referring to claim 26, Hodgson teaches a method for providing secure passcode authentication, wherein encrypting the PINBLOCK comprises encrypting the PINBLOCK using a triple DES encryption algorithm [paragraph 0026].

Application/Control Number: 10/816,455 Page 10

Art Unit: 2434

Referring to claim 29, Hodgson teaches a method for providing secure passcode authentication, wherein the front end HSM comprises the back end HSM [paragraph 0057].

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to YONAS BAYOU whose telephone number is (571)272-7610. The examiner can normally be reached on m-f,7:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kambiz Zand can be reached on 571-272-3811. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Application/Control Number: 10/816,455

Page 11

Art Unit: 2434

/Yonas Bayou/

Examiner, Art Unit 2434

11/20/2008

/Kambiz Zand/

Supervisory Patent Examiner, Art Unit 2434